

SIEMENS

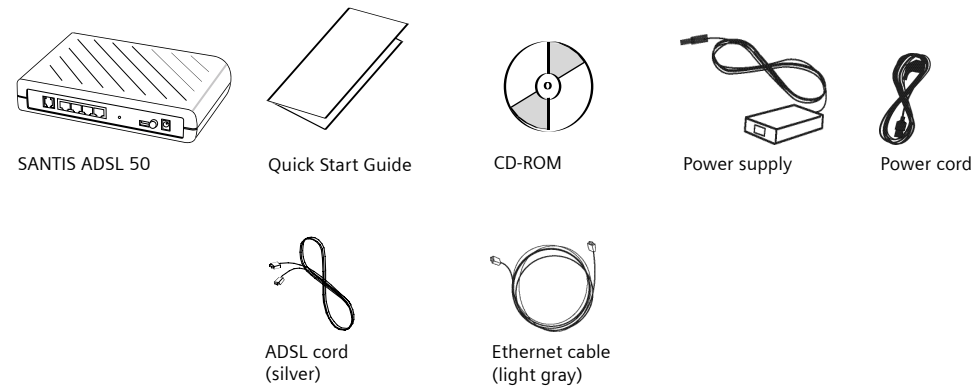
Quick Start Guide



SANTIS[®] ADSL 50 ADSL Router-modem

- Do never open the housing!
- Use only the power supply provided with this device.
- Use only the cables provided with this device and do not perform any modifications on them.

Verify that the following items came with your SANTIS ADSL 50 kit:



Optional:
Your service provider may include analog Y-Line Filters or Belgium Line Filters. If you have received any of these items, follow the instructions provided in this guide for “Hardware installation”. If you need further assistance installing these items, please contact your service provider.

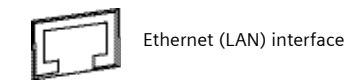


Before starting the installation of the SANTIS ADSL 50, make sure your computer is equipped with:

one of the following operating system (OS):

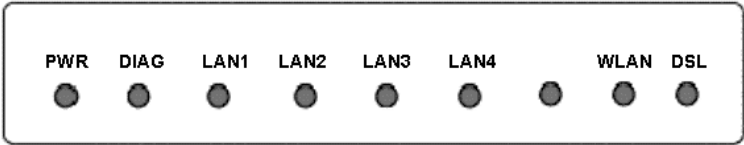
Windows 98 SE, ME, NT, 2000 or XP if your computer is equipped with a LAN interface (Ethernet or WiFi)

Note: Windows NT users please refer the full manual to configure the TCP/IP settings.



Step 5: Front panel system messages

The following illustration shows the front panel of the ADSL Router-modem:



LED Indicators

The ADSL Router-modem is equipped with LEDs on the front panel as described in the table below (from left to right):

LED	Color	Status	Description
PWR	Green	Off	Power off
		On	Power on
DIAG	Green	Off	Power off or initial self-test of the unit is OK
		Blinking	When software downloading or updating operation parameters located in FLASH memory is in progress
		On	Initial self-test failure or programming FLASH memory failure
LAN1 to LAN4	Green	Off	Power off or no Ethernet carrier is present.
		Blinking	Ethernet carrier is present and user data is going through Ethernet port
		On	Ethernet carrier is present
WLAN	Green	Off	Power off or no radio signal (WLAN card is not present or fails to function)
		Blinking	Traffic is going through Wireless LAN interface
		On	Wireless LAN interface is ready to work
DSL	Green	Off	Power off or ADSL line connection is handshaking or training is in progress
		Blinking	User data is going through ADSL port
		On	ADSL line connection is OK

Using radio waves, a wireless network introduces some security risks which are not present in a wired network; an unauthorized third party can intercept transmitted data, gain access to your wireless network, ... In order to make your wireless network as secure as a wired network you should apply, at least, the following guidelines :

1 - Change the SSID

Your wireless network is identified on the basis of an SSID (Service Set Identifier). This parameter, which can be considered as the network name, is broadcasted periodically through a beacon. Also the SSID is, in most cases, set default to a well known value. To improve the security you can :

1. disable the SSID broadcast. Users who want to connect to your wireless network must know this value to become connected. Also, your wireless network becomes invisible to a third party.
2. change the default value of the SSID. The SSID can contain maximal 32 characters and it's best to choose a value which is not too obvious.

2 - Activate WEP

To guarantee that your data is transmitted in a private manner, you should activate WEP (Wired Equivalent Privacy). Use of this protocol will result in your data being encrypted while travelling through the air. Choose the largest encryption key possible (in most cases this is 128 bits) and make sure that each PC on your wireless network uses the same key as the access point.

You can even improve the security by changing the WEP-key on a regular base.

3 - Activate MAC-address control list

By means of the MAC-address list, also known as the Association Control List, you can determine which client adapters can access your wireless network. This is done by introducing the MAC-address of the client adapter in the concerned list of the access point. A MAC address consists of 12 characters (0-9,A-F) and can be found on the back of the client adapter. A client adapter whose MAC address is not included in the list will not be granted access to your wireless network.

4 - Change / activate passwords

Configuration of the access point is done through a web browser. Secure this access, and any other access which may exist, by a carefully chosen password. If a default password, set by the manufacturer, is used, you should replace this by your own password.

See the detailed user manual on CD-ROM to find more information on how to configure these security recommendations.

Step 1: Install Line Filter |3

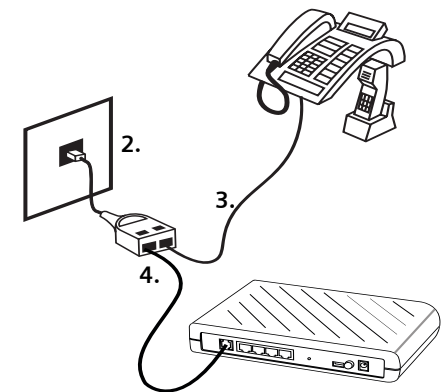
Devices such as fax machines or phones that share the same phone line as your ADSL account require a line filter, which protects your phone or fax from ADSL frequencies. Filters can be in the form of a Y-Line Filter or a Belgium-Line Filter. Both can be used if your ADSL modem will share the same phone jack with another device.

If your ADSL modem and another device will share the same 5-pole phone jack, install a Belgium-Line Filter.

If your wall socket is a RJ11 and your modem shares the line with another device, install a Y-Line Filter.

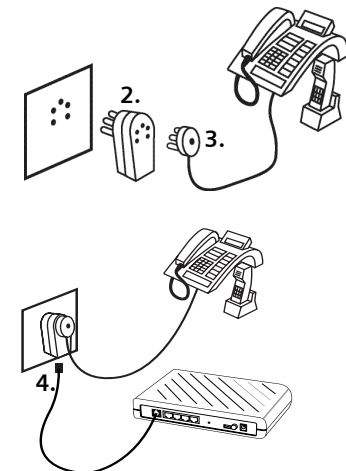
Y-Line Filters

1. Unplug the device's cord from the phone jack.
2. Plug the Y-Line Filter into the phone jack.
3. Plug the phone cord (or other device cord) into the "PHONE" jack of your Y-Line Filter.
4. Plug the ADSL cord into the "ADSL" jack of your Y-Line Filter.



Belgium Line Filter

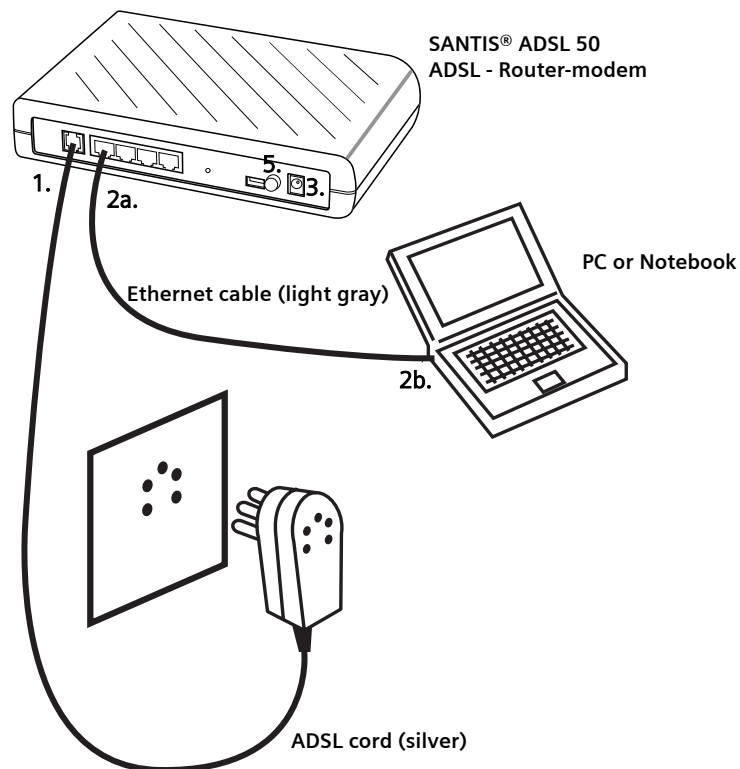
1. Unplug the device's cord from the phone jack.
2. Plug the Belgium-Line Filter into the phone jack.
3. Plug the phone cord (or other device cord) into the "PHONE" jack of your Belgium-Line Filter.
4. Plug the ADSL cord into the "ADSL" jack of your Belgium-Line Filter.



Step 2: Connect the ADSL Router-modem via Ethernet interface

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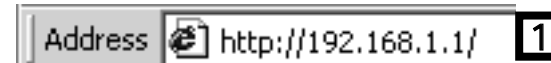
1. With your computer off, plug the end of the ADSL cord (silver) into the DSL port of your ADSL Router-modem.
- 2a. Connect the Ethernet cable (light gray) to a LAN port of your ADSL Router-modem.
- 2b. Connect the other end of the Ethernet cable to the LAN port of your computer.
3. Connect the power supply to your ADSL Router-modem and connect the power cord to the power supply.
4. Plug the power plug into a power outlet.
5. Turn your ADSL Router-modem on by pushing on the power button.
6. Turn your computer on and wait until your Operating System (OS) is started up.
7. Proceed with step 3 on the next page (Read first the introduction and continue then with the paragraph related to your operating system (OS)).



Step 4: Configure the ADSL Router-modem (Internet Access)

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- (1. Start your web browser (e.g. Internet Explorer) and type **192.168.1.1** in the address field of your browser. Press "Enter".



2. After connecting to the device, the "Quick Configuration" page will be displayed:

SIEMENS
Wireless ADSL Router Control Panel

Quick Configuration
Advanced Configuration

ADSL Configuration

DSL Line Status	Connection Status	IP Address	On-Line Time
Show Time	Terminate	0.0.0.0	00:00:00:00

3 User: Password:
Connect and Save

Wireless Configuration

Channel:

☐ Enable WEP Mechanism WEP mechanism is disabled.

☐ 64-bit Encryption WEP Key

☐ 128-bit Encryption WEP Key

Apply and Save

Wireless Association Control

☐ Enable Association Control

ATTENTION !
If "Association Control" is enabled non-authorized WLAN clients will be blocked

MAC Address	Access Right	Modify	Delete
00:02:2D:55:49:D2	Deny	Modify	Delete

2 **Apply and Save**

Note: If the "Quick Configuration" page is not displayed, please check the TCP/IP settings of your computer ("Obtain IP address automatically" must be enabled). Please refer to step 3 in this Quick Start Guide.

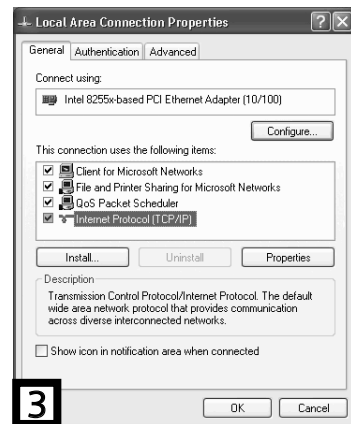
3. Enter **User Name** and **Password** of your Internet Service Provider (Boxed 3" at "ADSL Configuration")
4. Click to **Connect and Save**.
5. Username and Password will automatically be saved and the status of the Internet connection will be indicated.

Step 3: Configure the PC (TCP/IP settings) under Windows XP

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The following instructions assume you are running Windows XP's default interface. If you are using the Classical interface (where the icons and menus look like previous Windows versions), please follow the instructions for Windows 2000.

1. Click on **Start --> Control Panel**. Click on the **Network and Internet Connections** icon. Click on the **Network Connections** icon. The Network screen will appear.
2. Select the **Local Area Connection** icon for the applicable Ethernet adapter (usually it is the first Local Area Connection listed). Double-click on **Local Area Connection** and click on **Properties**.
3. Select **Internet Protocol (TCP/IP)** and click on **Properties**.
4. Select **Obtain an IP address automatically** and click on **OK** on the subsequent screens to complete the PC's configuration.
5. Restart your computer.



Step 3: Configure the PC (TCP/IP settings) Introduction

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In step 3, you will configure each of your computers to communicate with the SANTIS ADSL Router-modem.

To do this, you will need to configure your PC's network settings to obtain an IP address automatically. Computers use IP addresses to communicate with each other across a network or the Internet.

Find out which operating system your computer is running, such as Windows 98 SE, Millennium, 2000 or XP. You will need to know which operating system your computer is running. You can find out by clicking on **Start --> Settings**. (If your Start menu doesn't have a Settings option, you are running Windows XP. You can select the Control Panel directly from the Start Menu.) Then, click on **Control Panel** and double-click on the **System** icon. Click the **Cancel** button when done.

Once you know which Windows operating system you are running, follow the directions in this step for your computer's operating system. You may need to do this for each computer you are connecting to the router.

The next few pages tell you, step by step, how to configure your TCP/IP settings based on the type of Windows operating system you are using. Once you've configured your computers, continue with step 4, Configure the ADSL Router-modem.

Step 3:

Configure the PC (TCP/IP settings) under Windows 98 and Windows Millennium

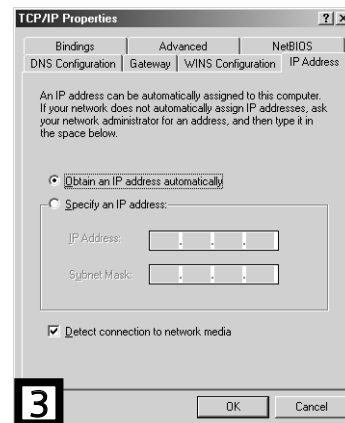
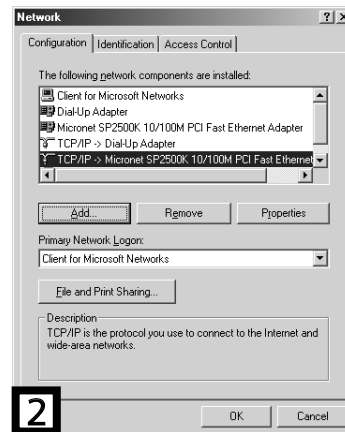
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Note: Windows 98 SE users need the Windows 98 SE installation CD-ROM to complete the installation.

1. Click on **Start --> Settings --> Control Panel**. Double-click on the **Network** icon to open the Network screen.
2. Select the Configuration tab and highlight the **TCP/IP** line for the applicable Ethernet adapter*. If the word **TCP/IP** appears by itself, select that line**. Click on **Properties**.
3. Click the **IP address** tab and select **Obtain an IP address automatically**.
4. Click on the **Gateway** tab and verify that the **Installed Gateway** field is blank. Click on **OK**.
5. Click again on **OK**. Windows may ask you for the original Windows installation disk or additional files. Supply them by pointing to the correct location, e.g. D:\win98, where "D" represents the letter of your CD-ROM drive.
6. If Windows asks you to restart your PC, click on **Yes**. If Windows does not ask you to restart, restart your computer anyway.

***Note:** Choose a TCP/IP entry whose name contains **Ethernet adapter** or refers to your wireless client adapter if you are going to configure the SANTIS ADSL 50 Router-modem via the wireless LAN interface. Do not choose a TCP/IP entry whose name is PPPoE, VPN or other.

****Note:** If there is no TCP/IP line listed, refer to the User Manual on your Siemens CD-ROM to install TCP/IP now.



Step 3:

Configure the PC (TCP/IP settings) under Windows 2000

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1. Click on **Start --> Settings --> Control Panel**. Double-click on the **Network and Dial-up Connections** icon. The Network screen will appear.
2. Select the **Local Area Connection** icon for the applicable Ethernet adapter (usually it is the first Local Area Connection listed). Double-click on **Local Area Connection** and click on **Properties**.
3. Select **Internet Protocol (TCP/IP)** and click on **Properties**.
4. Select **Obtain an IP address automatically** and click on **OK** on the subsequent screens to complete the PC's configuration.
5. Restart your computer.

